

# NGDA Dataset Report

**Official NGDA Title:** Outer Continental Shelf Oil and Natural Gas Wells- Gulf of Mexico Region NAD 27

**Metadata Record Title:** Outer Continental Shelf Wells - Gulf of Mexico Region NAD 27

**A-16 NGDA Theme:** Geology

## Executive NGDA Theme Champion(s):

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## Dataset Manager(s):

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## Metadata:

**Registration Status:** Complete

**Registered on** 3/8/2015

**GeoPlatform Link\*:** <https://www.geoplatform.gov/node/243/ba5c9166-01ea-46bb-9dcf-ee91a722e45c>

**Data.gov Metadata Link\*:** <http://catalog.data.gov/harvest/object/cb417fe2-2f09-4095-a1b8-5eed4454beb9/html>

\*If the metadata has been updated and reharvested after publication of this report, the link may no longer be valid. The dataset may be searched for manually in Data.gov or GeoPlatform.gov.

# NGDA Lifecycle Maturity Assessment (LMA) Report

## Time Frame:

Baseline assessment responses include dataset activities from 2001 to 2015

## LMA Submission:

**Status:** Complete

**Date:** 9/30/2015

**Extension Requested:** No

## LMA Reviewer(s):

**Supervisor:** Did not review

**Theme Lead:** Did not review

**Executive Champion:** Did not review

**SAOGI\*:** Did not review

**Other:** Warren Williamson

## LMA Verifier:

**Name:** Warren Williamson

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## Attachments:

To get access to any attachments referenced in the report, email the LMA Help Desk at [NGDA\\_LMA\\_help@fgdc.gov](mailto:NGDA_LMA_help@fgdc.gov). Please use the subject "Dataset Report Attachment(s)" and indicate the associated official NGDA title.

\*Senior Agency Official for Geospatial Information (SAOGI)

## Lifecycle Maturity Assessment (LMA) Summary

### Overall Maturity:

**Mature; Consistent**

General Questions: 91%

**Optimized; Established**

Stage 1 - Define/Plan: 90%

**Optimized; Established**

Stage 2 - Inventory/Evaluate: 100%

**Optimized; Established**

Stage 3 - Obtain: 78%

**Mature; Consistent**

Stage 4 - Access: 25%

**Planned; Initial Development**

Stage 5 - Maintain: 100%

**Optimized; Established**

Stage 6 - Use/Evaluate: 100%

**Optimized; Established**

Stage 7 - Archive: 33%

**Transition; Transformation**

### NGDA Dataset Maturity Definitions:

How To Calculate Maturity: [https://www.geoplatform.gov/sites/default/files/How\\_to\\_Calculate\\_Maturity.pdf](https://www.geoplatform.gov/sites/default/files/How_to_Calculate_Maturity.pdf)

Maturity	Maturity Characteristics for All Lifecycle Stages
Optimized; Established Rank = 5	Dataset meets virtually all business needs of all users. The dataset is considered authoritative by owners and secondary users. It is curated across all stages of the approved lifecycle. Future needs are defined on a regular basis and resources for addressing both current and future business requirements are available.
Mature; Consistent Rank = 4	Dataset meets all the business needs of the primary owner and most of the secondary users. The dataset is curated and used as authoritative by the primary owner. Dataset is used widely by secondary users actively engaged in sustaining the dataset. Future needs are identified and steps are planned to address these. All stages are supported and reviewed on a recurring basis. The dataset is well managed in relation to the approved lifecycle.
Managed; Predictable Rank = 3	Dataset meets a significant number of the business needs of the primary owner and is widely used as an authoritative resource by secondary users. Benchmark activities are occurring in at least four of the approved lifecycle stages. Management practices in relation to the approved lifecycle is moderate but consistent. Dataset is integrating changing business requirements in lifecycle stages impacting overall maturity.
Transition; Transformation Rank = 2	Dataset meets business needs of the primary owner and has moderate use by secondary users. Benchmark activities are occurring in at least three stages. Efforts to integrate funding, include partners, and obtain data are not supported in a sustained manner. Management practices in relation to the stages of the approved lifecycle is limited.
Planned; Initial Development Rank = 1	Dataset limited in meeting business needs of the primary owner. Benchmark activities in the approved lifecycle are just starting to consider secondary uses, partnerships are forming to support additional dataset uses. Dataset development is in a very early stage. Minimal or limited management against the benchmarks in the approved lifecycle.
No Activity Rank = no activity	Dataset meets project or local business needs of the primary owner, secondary or additional uses or users were not considered, not recognized as an authoritative data or is part of a similar dataset. Not managed to any of the benchmarks in the approved lifecycle.

## General Questions for All Stages

1) Is there a recurring process to obtain funding for all lifecycle stages of this dataset?

**Answer:** Funding support is part of agency budget on a recurring basis, funding is consistent and tied to business processes, and supports all lifecycle stages.

**Justification Comment:**

**Attachment(s):** 0

BSEE Budget and personnel support are established for Pipeline permitting and inspection programs. Regional program support is provided by The Regional Supervisor for Regional Field Operations, Pipelines Section. <http://www.bsee.gov/exploration-and-production/index/> Internal user access to pipeline mapping application and files is provided by the BSEE Information Technology Division via the Technical Information Management System (TIMS) database and ESRI ArcGIS application.

External web access to platform mapping data files is provided to the public via the BSEE Office of Technical Data Management.

[http://www.data.bsee.gov/homepg/data\\_center/mapping/geographic\\_mapping.asp](http://www.data.bsee.gov/homepg/data_center/mapping/geographic_mapping.asp) and also via <http://marinecadastre.gov/>

2) Is there a process in place to ensure that open government and transparency guidelines are followed in all lifecycle stages for this dataset?

**Answer:** Process established, significant portions of the documentation is complete.

**Justification Comment:**

**Attachment(s):** 0

Offshore OCS Oil and Natural Gas Wells datasets are available to internal users via Oracle Webforms and ESRI ArcGIS applications. Security is managed by the BSEE Information Technology Division. Activities are managed by regulation at 30 CFR 250, Subpart D, Oil and Gas Drilling Operations, 30 CFR 250, Subpart E, Oil and Gas Well-Completion Operations, 30 CFR 250, Subpart F, Oil and Gas Well-Workover Operations.

These regulations outline the information that BSEE require lease operators to provide and maintain regarding well-related data.

The BSEE Information Technology Division is responsible for maintaining the BSEE/BOEM TIMS Oracle database, Oracle webforms, and ArcGIS applications. The database provides the tags and mechanism for establishing the sensitivity of all BSEE data elements and data sets.

3) Are there processes and tools in place so that staff are sufficiently knowledgeable to ensure a continuity of the dataset for all stages of the lifecycle, especially during staffing transitions?

**Answer:** Processes and tools to ensure dataset continuity are in place and implemented for all lifecycle stages.

**Justification Comment:**

**Attachment(s):** 0

As described in questions 1 and 2, Well datasets are managed for daily usage, including for COOP during emergency situations, and regulated throughout their lifecycle. The datasets are continually updated internally. Public copies of the datasets and mapping files are provided to the public via our datacenter website and updated monthly. The offices that handle these functions, processes, and tools employed are properly funded.

## STAGE 1 - Define/Plan

4) Are user and business requirements defined and formalized?

**Answer:** A recurring process is in place, including defining new partner and stakeholder business needs as they arise, and is fully implemented.

**Justification Comment:****Attachment(s):** 0

The Well information and data that BSEE collects and maintains is required by regulation. The process for changing regulations is a transparent process that follows OMB requirements. Proposed regulation changes are listed in the Federal Register and comments are solicited and accepted and considered. BSEE also has MOU and MOA with various agencies, including EPA, USCG, DOT, BOEM, and ONRR, which can impact platform data. BSEE also follows Coastal Zone Management programs for each state affected by OCS operations. BSEE also has established working relationships with other Federal and State agencies such as FWS, NMFS, and US Air Force regarding the shared use of the OCS waters. In addition to coordination between Federal and State agencies, BSEE works with industry groups such as the Offshore Operators Committee and environmental organizations to ensure responsible development of the OCS, including activities related to platforms. Maintaining an accurate dataset of wells is an important function of the Agency.

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**5)** How are partners/stakeholders involved in the requirements collection process?

**Answer:** A recurring process is in place, including defining new partner and stakeholder business needs as they arise, and is fully implemented.

**Justification Comment:****Attachment(s):** 0

The Well information and data that BSEE collects and maintains is required by regulation. The process for changing regulations is a transparent process that follows OMB requirements. Proposed regulation changes are listed in the Federal Register and comments are solicited and accepted and considered. BSEE also has MOU and MOA with various agencies, including EPA, USCG, DOT, BOEM, and ONRR, which can impact platform data. BSEE also follows Coastal Zone Management programs for each state affected by OCS operations. BSEE also has established working relationships with other Federal and State agencies such as FWS, NMFS, and US Air Force regarding the shared use of the OCS waters. In addition to coordination between Federal and State agencies, BSEE works with industry groups such as the Offshore Operators Committee and environmental organizations to ensure responsible development of the OCS, including activities related to pipelines. Maintaining an accurate dataset of wells is an important function of the Agency.

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**6)** Is there a quality assurance process for the dataset?

**Answer:** Process established, significant portions of the documentation is complete.

**Justification Comment:****Attachment(s):** 0

The Well information and data that BSEE collects and maintains is required by regulation. The BSEE regulations define the sensitivity of information collected by BSEE. The BSEE Information Technology Division maintains the BSEE/BOEM TIMS Oracle database, Oracle webforms, and ArcGIS applications. The database provides the tags and mechanism for establishing the sensitivity of all BSEE data elements and data sets. Internal and External users of BSEE Webforms are provided warnings about the sensitivity of data and information.

Process improvement opportunities exist to establish a BSEE metadata harvesting location (currently using BOEM's), coordinate update timeframes between the automated mapping feeds to the Multmarine Cadastre system and manual Data Center processes.

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**7)** Is there a process to evaluate the sensitivity, privacy, and confidentiality of this dataset?

**Answer:** Sensitivity, privacy, and confidentiality evaluations fully implemented, reviewed and updated on a recurring basis.

**Justification Comment:****Attachment(s):** 0

The Well information and data that BSEE collects and maintains is required by regulation. The process for changing regulations is a transparent process that follows OMB requirements. Proposed regulation changes are listed in the Federal Register and comments are solicited and accepted and considered. BSEE also has MOU and MOA with various agencies, including EPA, USCG, DOT, BOEM, and

ONRR, which can impact platform data. BSEE also follows Coastal Zone Management programs for each state affected by OCS operations. BSEE also has established working relationships with other Federal and State agencies such as FWS, NMFS, and US Air Force regarding the shared use of the OCS waters.

In addition to coordination between Federal and State agencies, BSEE works with industry groups such as the Offshore Operators Committee and environmental organizations to ensure responsible development of the OCS, including activities related to wells. Maintaining an accurate dataset of wells is an important function of the Agency. The dataset exists for BSEE usages in support of the Agency's responsibility. As such, the "user" needs are defined by our Agency's mission. Any collection of data not related to BSEE's mission would need to go through the formal regulatory review process. Sensitivity, privacy, and confidentiality evaluations fully implemented, reviewed and updated on a recurring basis

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**8)** Are defined data standards used in collecting, processing, and/or rendering the data?

**Answer:** Standards being implemented.

**Justification Comment:**

**Attachment(s):** 0

The BSEE Information Technology Division maintains the BSEE/BOEM TIMS Oracle database, Oracle webforms, and ArcGIS applications. The database provides the tags and a mechanism for establishing the sensitivity of all BSEE data elements and data sets. Internal and External users of BSEE Webforms are provided warnings about the sensitivity of data and information.

BSEE has also established a National Data Steward who will fully implement and publish standards.

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## STAGE 2 - Inventory/Evaluate

**9)** Is there a process for determining if data necessary to meet requirements already exist from other sources (either within or outside the agency) before collecting or acquiring new data?

**Answer:** Process for determining appropriate data is being reused fully implemented, reviewed, and updated on a regular basis.

**Justification Comment:**

**Attachment(s):** 0

The Well information and data that BSEE collects and maintains is required by regulation. All Offshore OCS Well data maintained by BSEE are reported to BSEE as part of the permitting and safety and environmental compliance functions. As such, BSEE does not obtain well data from 3rd parties and is the primary source of well data for OCS.

Maintaining an accurate dataset of wells is an important function of the Agency.

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## STAGE 3 - Obtain

**10)** Is there a process for obtaining data in relation to this dataset?

**Answer:** Process is fully implemented, reviewed and updated on a regular basis.

**Justification Comment:**

**Attachment(s):** 0

The Wells information and data that BSEE collects and maintains is required by regulation. Since 2003, Gulf of Mexico lease operators have used the automate online eWell system to submit well drilling, completion and abandonment operations.

<https://ewell.bsee.gov/ewell/>

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**11)** Is the metadata in a FGDC endorsed geospatial metadata standard?

**Answer:** Metadata or documentation is available but not in a format endorsed by the FGDC (i.e. - FGDC CSDGM or ISO 19115).

**Justification Comment:**

**Attachment(s):** 0



The Gulf of Mexico well dataset metadata is found here:

<http://www.data.boem.gov/homepg/pubinfo/freeasci/well/boreholedatadfn.asp>

Additionally, they can be accessed via <http://www.data.gov/> and <http://marinecadastre.gov/>

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**12)** How complete is the geographic coverage as defined in the requirements for the dataset?

**Part 1 Answer:** Business requirements for cyclic updates identified and a process is in place.

**Part 2 Answer:** Dataset has presently attained the greatest geographic coverage as defined by the current requirements or roughly 100%.

**Justification Comment:**

**Attachment(s):** 0

The Wells information and data that BSEE collects and maintains is required by regulation. All Offshore OCS well data maintained by BSEE are reported to BSEE as part of the permitting and safety and environmental compliance functions. As such, BSEE does not obtain well data from 3rd parties and is the primary source of well data for OCS. Maintaining an accurate dataset of wells is an important function of the Agency.

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## STAGE 4 - Access

**13)** Do you have a process for providing users access to the data in an open digital machine readable format?

**Answer:** Process is under development.

**Justification Comment:**

**Attachment(s):** 0

The Gulf of Mexico well dataset is available to the public on the BSEE.gov website.

<http://www.data.boem.gov/homepg/pubinfo/freeasci/well/zipped/fixed/5010.zip>

Additionally, they can be accessed via <http://www.data.gov/> and <http://marinecadastre.gov/>

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## STAGE 5 - Maintain

**14)** Is there a maintenance process for updating and storing the dataset?

**Answer:** Dataset maintenance process is fully implemented and processes are reviewed and periodically updated.

**Justification Comment:**

**Attachment(s):** 0

As described in questions 1 and 2, Well datasets are managed for daily usage, including for COOP during emergency situations, and regulated throughout their lifecycle. The datasets are continually updated internally. Public copies of the datasets are provided to the public via our datacenter website and updated weekly. The offices that handle these functions, processes, and tools employed are properly funded. The Well information and data that BSEE collects and maintains is required by regulation. Prior to drilling, lease operators must submit plans and permit requests which include detailed data regarding proposed drilling operations and their proposed locations. Once permits are issued, BSEE requires accurate updates via the eWell system which are used to maintain the well datasets.

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**15)** Is there an error correction process as part of dataset maintenance?

**Answer:** Error correction process includes user notification, process reviewed on a recurring basis.

**Justification Comment:**

**Attachment(s):** 0

The Well information and data that BSEE collects and maintains is required by regulation. Prior to drilling, lease operators must submit plans and permit requests which include detailed data regarding proposed drilling operations and their proposed locations. Once permits are issued, BSEE requires accurate updates via the eWell system which are used to maintain the well datasets.

Any incorrect data is corrected in the oracle dataset as these errors are reported and/or discovered. Audit information such as "last modified date" are included in the source tables. The most-recent version of the wells dataset is available to the public on the BSEE.gov website data center.  
[http://www.data.bsee.gov/homepg/data\\_center/well/well.asp](http://www.data.bsee.gov/homepg/data_center/well/well.asp)

Limited online queries are updated daily, as well as PDF reports being updated weekly. Complete ascii datasets are maintained weekly for the Gulf.

Mapping datasets are maintained weekly via the MultiMarine Cadastre system. The wells mapping data format is not currently published in the Data Center.

The most-recent version will include any corrected or appended data. The only real issue regarding the non-BSEE end user would be information about the records that were modified and that are different (corrected\_ since the previous version. This is something we would consider for future clarification.

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## STAGE 6 - Use/Evaluate

**16)** Is there a process to determine if the dataset meets user needs?

**Answer:** Process is fully implemented and repeated on a recurring basis.

**Justification Comment:**

**Attachment(s):** 0

The Wells information and data that BSEE collects and maintains is required by regulation. The process for changing regulations is a transparent process that follows OMB requirements. Proposed regulation changes are listed in the Federal Register and comments are solicited and accepted and considered. BSEE also has MOU and MOA with various agencies, including EPA, USCG, DOT, BOEM, and ONRR, which can impact platform data. BSEE also follows Coastal Zone Management programs for each state affected by OCS operations. BSEE also has established working relationships with other Federal and State agencies such as FWS, NMFS, and US Air Force regarding the shared use of the OCS waters. In addition to coordination between Federal and State agencies, BSEE works with industry groups such as the Offshore Operators Committee and environmental organizations to ensure responsible development of the OCS, including activities related to pipelines. Maintaining an accurate dataset of pipelines is an important function of the Agency. The dataset exists for BSEE usages in support of the Agency's responsibility. As such, the "user" needs are defined by our Agency's mission. Any collection of data not related to BSEE's mission would need to go through the formal regulatory review process.

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**17)** Is there a process to provide users information on how to access and properly use the dataset?

**Answer:** Process is fully implemented supporting access and proper use, process is reviewed on a recurring basis.

**Justification Comment:**

**Attachment(s):** 0

The BSEE Information Technology Division is responsible for maintaining the BSEE/BOEM TIMS Oracle database, Oracle webforms, and ArcGIS applications. This office also provides training and maintains end-user documentation. Internal users have multiple resources to help understand how to access and properly use the data, and all other data and information in BSEE's Technical Information management System.

The BSEE/GOM Office of Technical Data Management maintains the BSEE public-facing Data Center which provides the well location data:

<http://www.data.bsee.gov/homepg/pubinfo/freeascii/well/zipped/fixed/5010.zip>

This well data is also accessible via <http://www.data.gov/> and <http://marinecadastre.gov/>



A Data Center Modernization effort is underway, which will eventually include online tutorials for first time users.

**18)** Are the business processes and management practices assessed to meet changing technology?

**Answer:** Assessment process is fully implemented for taking advantage of changing technology, process is reviewed on a recurring basis.

**Justification Comment:**

**Attachment(s):** 0

Assessment process is fully implemented for taking advantage of changing technology, process is reviewed on a recurring basis. BSEE is beginning in FY2016 a fully-funded ePermits project which will include potential modification of certain aspects of the pipelines dataset. This process includes redeveloping our Oracle webforms and ArcGIS applications to new up-to-date technology. The BSEE Information Technology Division is responsible for maintaining the BSEE/BOEM TIMS Oracle database, Oracle webforms, and ArcGIS applications, and is responsible to maintaining a high-level of security. Security concerns of the TIMS database require constant updates to use employ newer technology.

A Data Center Modernization effort is underway which includes a migration from classic ASP to .NET

## STAGE 7 - Archive

**19)** Is there an archiving process for the dataset?

**Answer:** Archival and/or disposition processes are in development.

**Justification Comment:**

**Attachment(s):** 0

Archival and/or disposition processes are fully in place for BSEE records. However, there are not yet fully implemented archival and disposition process for the data captured as part of BSEE's permitting and inspection functions. BSEE is beginning in FY2016 a fully-funded ePermits project which will include potential modification of certain aspects of the wells dataset. This process includes developing the archival and disposition functionality for the data.